

APPLICANTS: PALTI, Yoram et al.
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Amendments to the Claims:

Please amend the claims as follows, and cancel without prejudice claims marked as cancelled.

1. (Currently Amended) A system for in vivo detection of H. pylori, the system ~~comprising~~ comprising:
an autonomous in vivo sensing device configured for sensing in vivo pH and for transmitting in vivo data to a receiving ~~unit;~~ unit, said sensing device comprising an imager; and
an external receiving unit configured for indicating an in vivo pH ~~about equal or larger than 5.5, based on the transmitted in-vivo data.~~
2. (Cancelled)
3. (Currently Amended) The system according to claim 1 wherein the external receiving unit is configured for indicating an in vivo pH about equal or larger than 5.5 sensing device ~~includes an image sensor.~~
4. (Cancelled)
5. (Original) The system according to claim 1 wherein the sensing device includes pH indicator.
6. (Original) The system according to claim 5 wherein the pH indicator is a color changing indicator.
7. (Cancelled)
8. (Original) The system according to claim 6 wherein the pH indicator is attached to an optical window in the sensing device.
9. (Original) The system according to claim 6 wherein the pH indicator is immobilized within a sampling chamber in the sensing device.
10. (Cancelled)
11. (Original) The system according to claim 1 wherein the sensing device comprises a radio frequency transmitter.
12. (Original) The system according to claim 1 wherein the sensing device comprises a power source.
13. (Cancelled)

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14. (Original) The system according to claim 1 wherein the receiving unit is configured for receiving radio frequency signals.

15. (Original) The system according to claim 1 wherein the receiving unit comprises a display configured for displaying transmitted in vivo data.

16. (Cancelled)

17. (Currently Amended) A system for in vivo detection of H. pylori, the system ~~comprising comprising~~:

an autonomous in vivo pH sensing device, said device comprising an imaging system and a transmitter;

an external receiving unit; and

a processor configured for identifying changes in pH over a predetermined threshold.

18. (Currently Amended) The system according to claim 17 wherein the predetermined threshold includes a pH change of about 2.5 units.

19. (Original) The system according to claim 17 further comprising a display.

20. (Cancelled)

21. (Cancelled)

22. (Original) A method for in vivo detection of H. pylori, the method comprising sensing pH in at least one location proximate to a patient's stomach mucus; and transmitting by radio frequency pH data to an external receiving unit.

23. (Original) The method according to claim 22 further comprising indicating a pH value which is about equal to or exceeds a predetermined threshold.

24. (Original) The method according to claim 22 wherein sensing pH is by imaging a color changing pH indicator.

25. (Currently Amended) The method according to claim 23 wherein the ~~predetermined threshold~~ pH value is about 5.5.

26. (Cancelled)

27. (Currently Amended) ~~A method for in vivo detection of H. pylori;~~ The method according to claim 23, the method ~~comprising comprising~~:

inserting an autonomous pH sensing device into a patient's stomach;

positioning the patient to achieve substantially covering of the patient's stomach body; and

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receiving in vivo data.

28-29. (Cancelled)